

Soil and Water Remediation, Groundwater/Vadose Zone (RL-0030)

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*200-PO-1
Seismic
Geophysical
Logging*

*Pouring Base
for 100-KR-4
Expansion Ion
Exchange
Columns*



Overview

This section addresses Project Baseline Summary (PBS) RL-0030, *Soil and Water Remediation, Groundwater/Vadose Zone*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of March 2008.

Notable Accomplishments

• River Corridor

- Initiated construction on the 100-KR-4 pump and treat expansion to 900 gallons per minute (gpm) capacity.
- Accepted four 100-KR-4 wells (total of 15 wells accepted through March 2008).
- Completed vertical profiling in selected Horn wells in support of the chromium contamination investigation.
- Conducted a chromium remediation technology exchange with industry experts.
- Sponsored a 100-D and 100-HR groundwater/surface water interaction workshop to help in determining final treatment remedies for chromium contamination.

• Central Plateau

- Initiated 200-PO-1 Seismic Geophysical Logging.
- Accepted six 200-UP-1 wells.
- Received 200-ZP-1 Draft B Feasibility Study/Proposed Plan comments from the U.S. Environmental Protection Agency (EPA).
- Initiated T Tank Farm aquifer test (200-ZP-1).
- Drafted the functional and operational requirements for the final groundwater treatment remedy for 200-ZP-1.
- Awarded contract to begin drilling a deep vadose zone characterization well in the 200 East Area C Tank Farm.

• Integration

- Completed FY 2008 administrative well decommissioning; 2514 wells decommissioned.
- Awarded contract to decommission 57 River Corridor wells.
- Completed 44 percent of baseline well sampling (1066 of 2403 wells sampled fiscal year to date).

Issues

High chromium contamination levels in six of the injection wells drilled for the 100-KR-4 pump and treat expansion contain chromium contamination levels in excess of EPA-determined acceptable limits for an injection well. One existing monitoring well will be re-purposed as an injection well, and five replacement injection wells will be drilled.

FY 2008 Funds vs. Spend Forecast (\$M)

	Projected FY 2008 Funding	FY 2008 Fiscal Year Spending Forecast	Variance
Soil and Water Remediation, Groundwater/ Vadose Zone	\$ 115.3	\$ 113.9	\$ 1.4

Schedule/Cost Performance (\$M)

Soil & Water Remediation, Groundwater/Vadose Zone	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY08/ CTD)
Current Period (Month)	\$8.5	\$7.6	\$7.4	-\$0.9	-10.4%	\$0.1	1.8%	\$103.9
Cumulative-to-Date (FY 2004-Present)	\$254.8	\$244.2	\$243.4	-\$10.7	-4.2%	\$0.7	0.3%	\$312.4

Numbers are rounded to the nearest \$0.1M and include the Closure Services allocation.

CTD Schedule Performance (-\$10.7M/-4.2%):

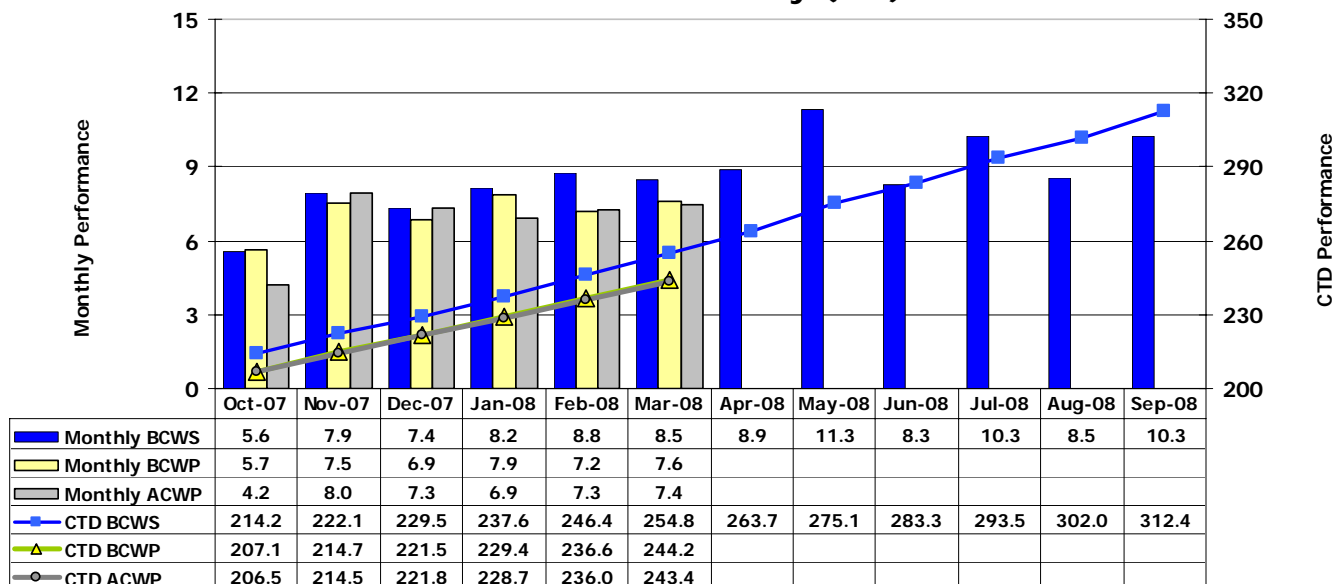
- The CTD schedule variance is primarily due to delayed start of construction for 100-KR-4 pump and treat expansion, due to the recent increase in the expansion scope; not yet recovered delays in well drilling due to cultural resource review and technical issues; delayed sampling of 200-BP-5 wells due to drilling delays; and delayed implementation of strategic integration changes.

CTD Cost Performance (+\$0.7M/+0.3%):

- The CTD cost variance is within reporting parameters (> +/- 10% and > +/- \$1.0M); no variance explanation required.

Schedule/Cost Performance (\$M), continued

Performance Analysis CTD and Monthly (\$M)



Milestone Achievement

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The FY 2008 Enforceable Agreement milestone information provided herein is based upon the current baseline including RL-approved changes. Changes from month-to-month in both the total number of milestones to be completed and in the forecast status of upcoming milestones are the result of BCRs approved during the reporting period.

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
M-013-06B	Submit the 200-BP-5 OU RI/FS Work Plan to EPA	TPA	3/31/07	3/30/07		Complete
M-016-14A	Complete Construction of a 300 foot Permeable Reactive Barrier Utilizing Apatite Sequestration at 100-N	TPA	5/31/07	3/25/07		Complete
M-015-48B	Submit the 200-ZP-1 OU Feasibility Study Report / Proposed Plan to EPA	TPA	9/30/07	9/13/07		Complete
M-013-10A	Submit the 200-PO-1 OU Remedial Investigation/Feasibility Study to Ecology	TPA	9/30/07	8/22/07		Complete
M-024-57M	Install a Cumulative of 60 Wells	TPA	12/31/07	4/6/07		Complete
M-015-50	Submit a Treatability Work Plan for Deep Vadose Zone Technetium and Uranium to Ecology and EPA	TPA	12/31/07	12/22/07		Complete
M-016-14B	Submit Draft CERCLA Proposed Plan for 100-NR-2	TPA	8/31/08		8/31/08	On Schedule